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A space-time analysis of *Mycoplasma bovis* in Denmark

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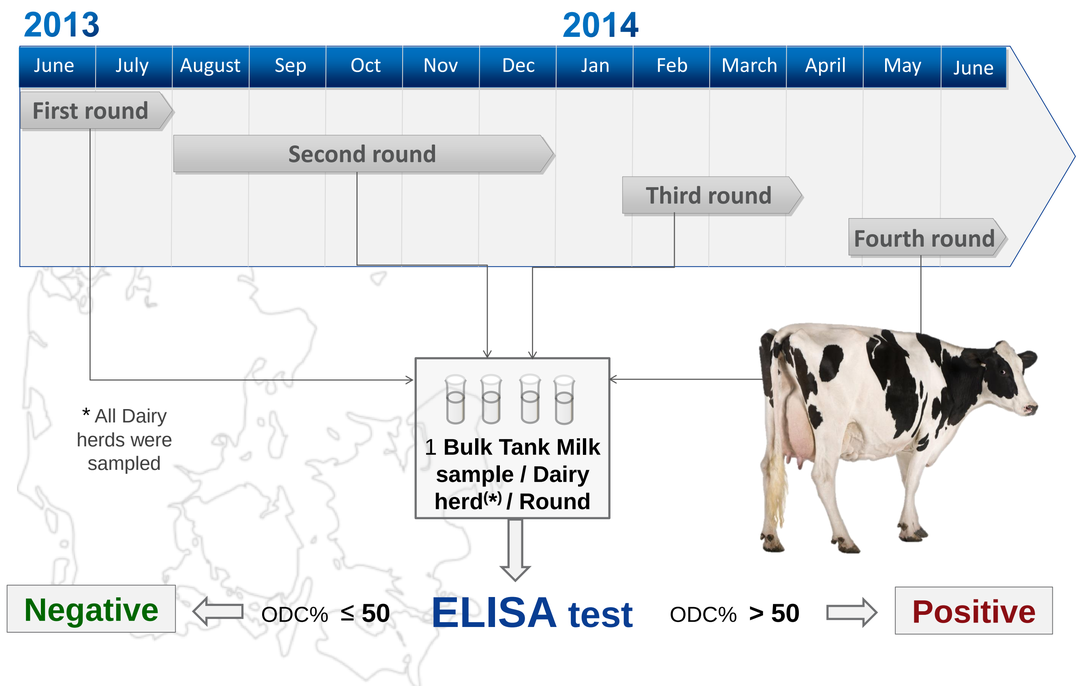
Background

Mycoplasma (M.) bovis causes in cattle, among other diseases, mastitis. The dairy cattle population in Denmark had an increase in atypical clinical outbreaks of *M. bovis* over the past years. An important prerequisite to the implementation of an effective control program is **to determine the geographical distribution of *M. bovis***.

Conclusions

- *Mycoplasma bovis* infected herds are clustered in northern or southern Denmark.

Data

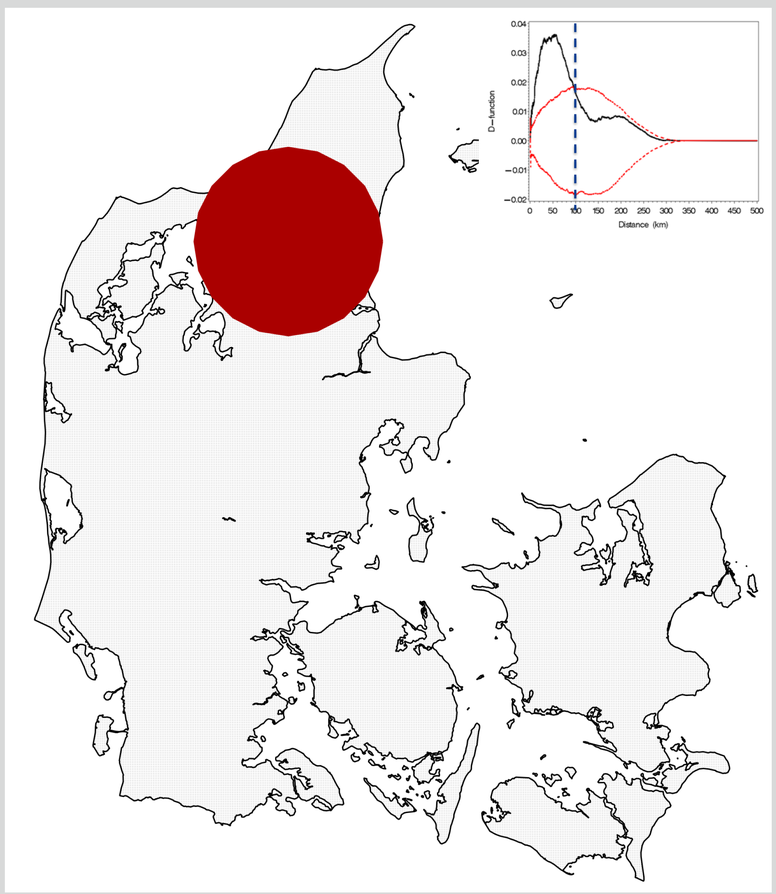


Results

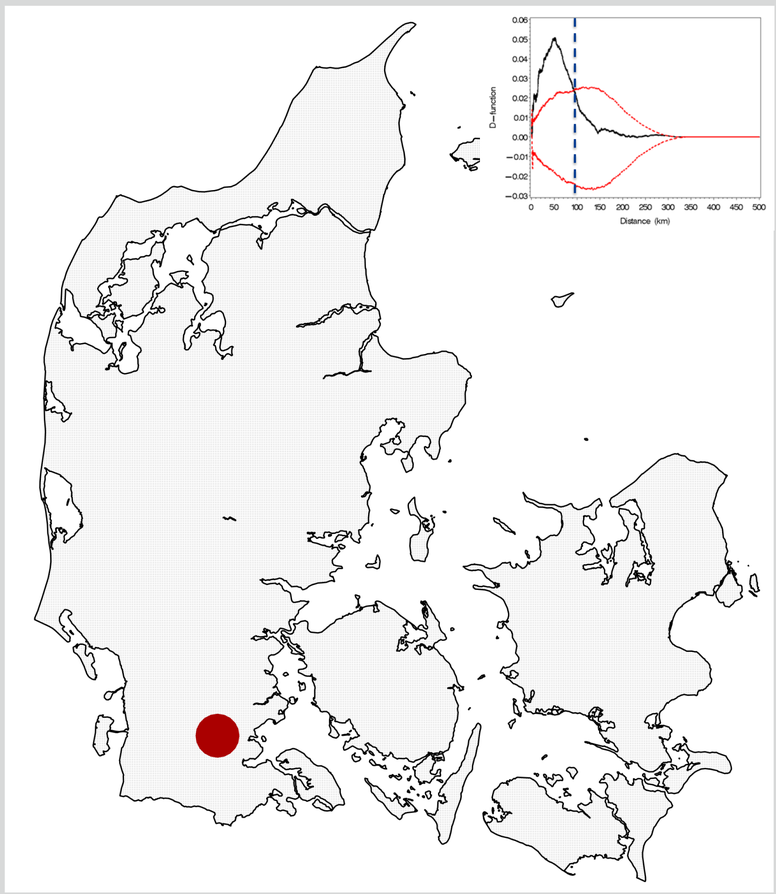
Space-time scan statistics (SatScan™) / K- function

Significant local primary clusters*

1st Round

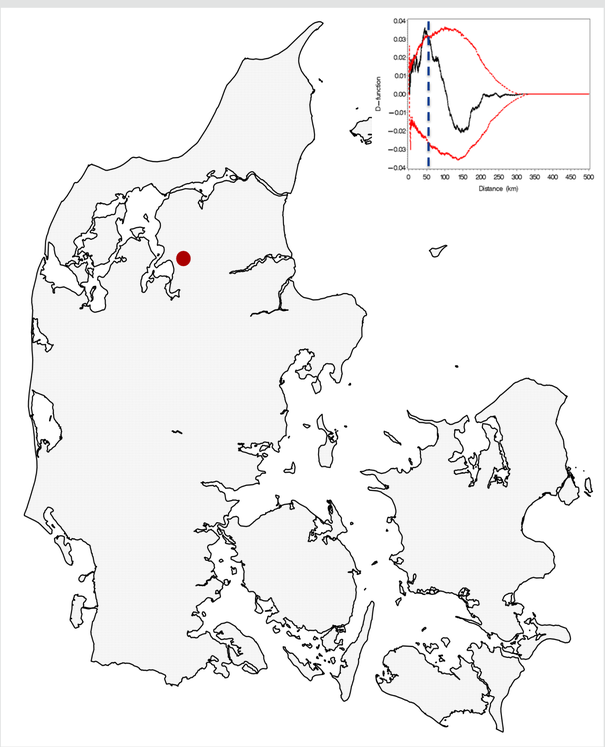


3rd Round



A **marginally significant primary cluster**:

4th Round



The maps show the location of the clusters of *M. bovis* infected herds, while the inserts (K-function) indicate global clustering of cases around a radius of 70 km (app), in each round.

(*)There was no clustering in the second round.

The clusters are in areas with high herd and cattle density.

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